

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT - PASAGAON, BLOCK - PASAGAON, DISTT-LAKHIMPUR KHIRI  
UNDER  
**JAL JIVAN MISSION**

Introduction:

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth ~~165~~ mtrs. at above site. Was drilled by M/s NCC, Lakhimpur Khiri.

On the request of M/s NCC, Lakhimpur Khiri, a Geophysical well Logging in the above bore hole using IGIS Well Logger on 05.Mar.2023.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 17.82 Ohms.  
Drilling Water Resistivity = 18.90 Ohms.  
Approx Water Level = 5 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	✓
2.	5 - 20	15	Clay kankar	
3.	20 - 37	17	Medium sand	
4.	37 - 42	5	Clay kankar	
5.	42 - 58*	16	Medium sand	Medium
6.	58 - 62	4	Clay kankar	
7.	62 - 69*	7	Medium sand	Medium
8.	69 - 75	6	Clay kankar	
9.	75 - 79*	4	Medium sand	Medium
10.	79 - 82	3	Kankar	
11.	82 - 106*	24	Medium sand & kankar	Medium
12.	106 - 111	5	Clay kankar	
13.	111 - 125*	14	Medium sand	Medium
14.	125 - 136	11	Clay kankar	
15.	136 - 145*	9	Medium sand	Medium
16.	145 - 155	10	Clay kankar	
17.	155 - 160*	5	Medium sand	Medium
18.	160 - 165	5	Sandy clay	

SRNOIL - 82-95

(13m)  
Sand  
rest is kankar mixed



Ground Water Survey Agency  
Lakhimpur Khiri

Logging performed as per SISM guidelines. Groundwater quality is interpreted by geomag per their logger calibration.